

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

28. (Currently amended) An electromechanical transducer comprising:
a ferroelectric thin film sandwiched between a top electrode and a bottom electrode;
an adhesive layer formed from an alloy containing an anti-diffusion metal and an adhesive metal, said adhesive layer being formed between said bottom electrode and a surface where said transducer is installed; and
an anti-diffusion layer formed from an alloy containing an anti-diffusion metal and an said adhesive metal, said anti-diffusion layer being formed between said bottom electrode and said ferroelectric thin film.

29. (Currently amended) The electromechanical transducer according to Claim 28, wherein the anti-diffusion metal contained in both said adhesive layer and said anti-diffusion layer is selected from the group consisting of iridium, rhodium, ruthenium, and osmium.

30. (Currently amended) The electromechanical transducer according to Claim 28, wherein said adhesive layer comprises an alloy of the anti-diffusion metal and a metal that constitutes said bottom electrode.

31. (Currently amended) The electromechanical transducer according to Claim 28, wherein said adhesive metal of both said adhesive layer and said anti-diffusion layer is either titanium or chromium.

32. (Currently amended) The electromechanical transducer according to Claim 28, wherein said bottom electrode ~~consists of~~ comprises platinum.

33. (Currently amended) The electromechanical transducer according to Claim 28, wherein said ferroelectric thin film is formed in a thickness of at least 1 μm .

34. (Currently amended) An ink jet recording head, wherein the electromechanical transducer according to any of Claims 28 to 33 is installed on a diaphragm film formed on at least one side of a pressure chamber filled with an ink.

35. (Currently amended) The ink jet recording head according to Claim 34, wherein ~~[[said]]~~ the diaphragm film is constituted by ~~[[the]]~~ lamination of a silicon oxide film and a zirconium oxide film.

36. (Previously amended) The ink jet printer, wherein the ink jet recording head according to Claim 34 is provided as an ink discharge means.